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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/262,123	03/03/1999	DAVID CARROLL CHALLENGER	RP9-98-089	8958

7590

08/08/2002

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EXAMINER

ZAND, KAMBIZ

ART UNIT

PAPER NUMBER

2132

DATE MAILED: 08/08/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/262,123

Applicant(s)

CHALLENGER ET AL.

Examiner

Kambiz Zand

Art Unit

2132

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 May 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this section can be found in the prior office action.
2. The prior office actions are incorporated herein by reference. In particular, the observations with respect to claim language, and response to previously presented arguments.
3. Claim 17 is cancelled.
4. Claims 1, 3-9 and 11-16 are amended.
5. Claims 1-16 are pending.
6. Examiner withdraws objection to the drawings and specification due to correction by the applicant.

Response to Arguments

7. Applicant's arguments filed 05/13/02 have been fully considered but they are not persuasive.

Applicant states "Applicant agrees with the Examiner that, at first blush, Boneh et al, may seem to disclose the storage of encryption keys within a non-secure memory by first encrypting those keys utilizing encryption engine 210" (see page 10, first paragraph of the response) but present an argument that this method relates to symmetrical system and not a asymmetrical system of present invention. Boneh teach master key storage generates a public/private key pair (see col.7, lines 45-53), an asymmetrical concept.

Claim Rejections - 35 USC § 102

8. **Claims 1-4 and 9-12** are rejected under 35 U.S.C. 102(e) as being anticipated by Boneh et al. (6,134,660).

As per claims 1 and 9 Boneh et al. (6,134,660) teach a method and a system in a data processing system for maintaining multiple secure user private keys in a non-secure storage device, said method and system comprising the steps of: establishing a master key pair for said system (see col. 6, lines 38-40), said master key pair including a master private key and a master public key (see col. 7, lines 45-47); storing said master key pair in a protected storage device (see col. 7, lines 55-56; fig. 2); establishing a unique user key pair for each multiple users, each of said a user key pairs including a user private key and a user public key (see col. 8, lines 18-27); encrypting each of said user private keys utilizing said master public key; and storing each of said encrypted user private keys in said non secure storage device (see col. 7, lines 50-63; fig. 2), wherein each of said encrypted user private keys is secure while stored in said non-secure storage device (fig. 2, item 108).

As per claims 2 and 10 Boneh et al. (6,134,660) teach the method and the system according to claim 1, further comprising the steps of: establishing an encryption device having an encryption engine and said protected storage device; and said protected storage device being accessible only through said encryption engine (see fig. 3, item 108 through 210).

As per claims 3 and 11 Boneh et al. (6,134,660) teach the method and the system according to claims 2 and 10, further comprising the step of said encryption engine

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encrypting each of said user private keys utilizing said master public key stored in said protected storage device (see fig. 3, item 204).

As per claims 4 and 12 Boneh et al. (6,134,660) teach the method and the system according to claims 3 and 11, further comprising the steps of: an application generating a message to transmit to a recipient (see fig. 2); said encryption engine decrypting a particular user's private key utilizing said master private key; said encryption engine encrypting said message utilizing said decrypted particular user's private key and a recipient's public key; and said system transmitting said encrypted message to said recipient (see fig. 5B and 6).

Claim Rejections - 35 USC § 103

9. Claims 5-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boneh et al. (6,134,660) in view of McBride (6,292,899B1).

As per claims 5 and 13 Boneh et al. (6,134,660) teach the method and the system according to claims 4 and 12 above, wherein the step of establishing a user key pair as applied to claim 1 above but fail to explicitly point out the step of associating each of said user key pair with an application. However McBride (6,292,899B1) teaches that relationship (see fig. 3, item 301). It would have been obvious to one of ordinary skilled in the art at the time the invention was made to include McBride (6,292,899B1) method with relation to programs and application in Boneh et al. (6,134,660) system and

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method in order to provide secure transmission of programs and application in a wide area network environment.

As per claims 6 and 14 Boneh et al. (6,134,660) teach the method and the system as applied to claims 5 and 13 but do not disclose explicitly the steps of: establishing a certificate, said certificate being associated with said application, said particular user's private key, and said user; in response to said user attempting to access said application utilizing said certificate, said encryption engine utilizing said certificate to determine a location within said non secure storage device for said user private key associated with said certificate; said encryption engine decrypting particular said user's private key; and said encryption engine utilizing said decrypted user private key to encrypt messages transmitted by said application. However McBride (6,292,899B1) teaches the above relationship and describes a master file (certificate) associated with the application (see col. 7, lines 7-13; col. 5, lines 40-67). It would have been obvious to one of ordinary skilled in the art at the time the invention was made to include McBride (6,292,899B1) method with relation to use of a master file as a certificate in relation with programs and application in Boneh et al. (6,134,660) system and method in order to provide highly secure transmission of programs and application in a wide area network environment.

As per claims 7 and 15 Boneh et al. (6,134,660) teach the method and the system according to claims 1 and 14, wherein said step of storing each of said encrypted user private keys in said non-secure storage further comprises the step of storing each of said encrypted user private keys (see fig. 2-3) but mentions backup tape and not

explicitly a hard drive. However it is well known in the art that hard drive are one type of storage device for backing up and storing data. It would have been obvious to one of ordinary skilled in the art to use hard drive as well as other storage medium in order to store different kind of data including backup data.

As per claims 8 and 16 Boneh et al. (6,134,660) teach the method and the system according to claims 7 and 15, further comprising the step of each of said unique user key pairs being capable of being utilized only in said data processing system wherein a particular user key pair is established as applied to claim 1 above wherein said particular user key pair is not capable of being utilized in a second data processing system (see col. 6, lines 65-67; col. 7, lines 1-13).

Conclusion

10. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kambiz Zand whose telephone number is (703) 306-4169. The examiner can normally be reached on Monday-Thursday (8:00-5:00). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on (703) 305-1830. The fax phone numbers for the organization where this application or proceeding is assigned are as follows:

After-Final (703) 746-7238

Official (703) 746-7239

Non-Official/Draft (703) 746-7240

Kambiz Zand

K-Z
08/01/02

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